

WASTEWATER LIFT STATION CALIBRATION CHECKLIST

Date: _____

Operator: _____

Lift Station ID: _____

1. Safety Checks

- Lockout/Tagout (LOTO) applied if entering the wet well.
- Personal Protective Equipment (PPE) worn: gloves, boots, eye protection.
- Confined space precautions reviewed if entry required.

2. Visual Inspection

- Wet well free of excessive debris, rags, or grease.
- Pumps and impellers intact, no visible damage or clogging.
- Level sensors clean, no corrosion, algae, or buildup.
- Control panel and wiring dry and undamaged.

3. Sensor Calibration

Float Switches

- Float moves freely without obstruction.
- Simulate high level → pump starts.
- Simulate low level → pump stops.
- Adjust float mounting if necessary.

Ultrasonic Sensors

- Remove surface debris or foam.
- Measure wet well depth.
- Compare sensor reading to manual measurement.
- Adjust sensor offset until readings match.

Pressure Transducers

- Record empty (zero) and full-scale points.
- Compare sensor output to actual water level.
- Adjust scaling in controller for accuracy.

4. Pump Verification

- Pump starts at correct high-level setpoint.
- Pump stops at correct low-level cutoff.
- Lead/lag pump sequencing verified.
- Pump run-time matches expected flow volume.

5. Alarm & Communication Checks

- High-level alarm activates correctly.
- Low-level alarm activates correctly.
- SCADA/remote monitoring receives accurate readings.

6. Documentation

- Record sensor type, calibration offsets, and date.
- Record pump start/stop setpoints.
- Note any maintenance or adjustments made.
- File records for regulatory compliance.

7. Post-Calibration Maintenance

- Clean sensors if needed.
- Inspect floats and wiring monthly.
- Schedule next calibration or check.

Operator Signature



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